

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 October 2005 (06.10.2005)

PCT

(10) International Publication Number
WO 2005/093224 A1

(51) International Patent Classification⁷: F01L 1/18, 13/00

(21) International Application Number:

PCT/US2005/006709

(22) International Filing Date: 2 March 2005 (02.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/549,783 3 March 2004 (03.03.2004) US

60/635,503 13 December 2004 (13.12.2004) US

(71) Applicant (for all designated States except US): **TIMKEN
US CORPORATION** [US/US]; 59 Field Street, Torrington, CT 06790 (US).

(72) Inventors; and

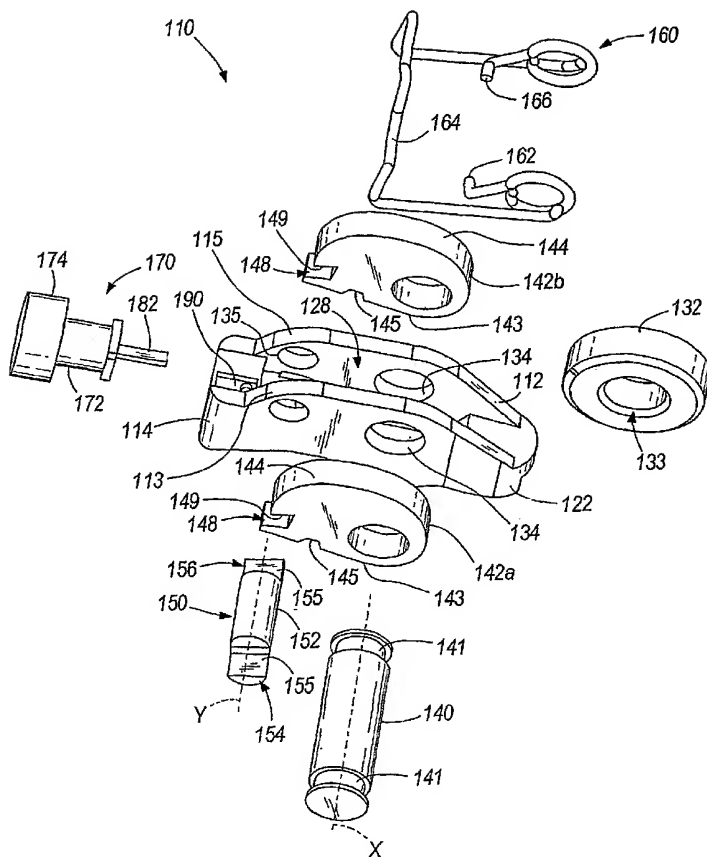
(75) Inventors/Applicants (for US only): **MURPHY, Richard, F.** [US/US]; 187 Hodges Hill Road, Torrington, CT 06790 (US). **DEIERLEIN, Matthew, J.** [US/US]; 390 Long Meadow Road, Middlebury, CT 06762 (US).

(74) Agent: **MASSINA, Glenn, M.**; Michael Best & Friedrich LLP, Suite 3300, 100 East Wisconsin Avenue, Milwaukee, WI 53202-4108 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,

[Continued on next page]

(54) Title: SWITCHING FINGER FOLLOWER ASSEMBLY



(57) Abstract: A two-step finger follower rocker arm assembly (10) comprising a follower body (11) having a first end (12) for engaging the engine and a second end (13) for engaging a valve stem (3) of the gas valve. The follower body has a passage formed in the body between the first and second ends and has a first bore (18) traversing the passage. A central follower (20) is positioned in the passage and is configured for engagement with the central lobe. A first lateral follower (30) is pivotally supported on a shaft (17) extending through the first bore and is configured to engage the at least one lateral cam lobe. A latching mechanism (40) is positioned on the follower body for selectively latching the lateral follower to the body.



TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.